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TITLE: Vibration damper - has pair of interacting electromagnets and elastic element as flat springs

INVENTOR: GUROV, A P; KORNOVAN, V N ; NERUBENKO, G P

PATENT-ASSIGNEE: NIKOLAEVSK SHIP CON[NIKOR]

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BASIC-ABSTRACT:

To improve effectiveness, a vibration damper is equipped with an electromagnet (3) rigidly mounted to posts (1) in the plane perpendicular to the object's (2) vibrations, an electromagnet (4) interacting with the first one, and an elastic element in the form of flat springs (5,6) fastened to the posts.

After selection of the appropriate electromagnet (4) mass, the springs rigidity and the magnetic flux, it appears that the frequency of the electromagnet (4) mass equals the frequency of disturbing action on the object (2). Application of this damper allows diminution of a dynamic load acting on the object.
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CHOSEN-DRAWING: Dwg.1/1

TITLE-TERMS: VIBRATION DAMP PAIR INTERACT ELECTROMAGNET ELASTIC ELEMENT FLAT SPRING

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